



# ACOUSTICAL SOCIETY OF AMERICA

OFFICE OF THE  
STANDARDS SECRETARIAT

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## S1/416

# MINUTES

ACCREDITED STANDARDS COMMITTEE  
ON ACOUSTICS, S1  
U.S. TAG for ISO/TC 43 ACOUSTICS  
and IEC/TC 29 ELECTROACOUSTICS,

Washington, D.C.

Friday, 2 June 1995



19951030 066

MINUTES OF S1 MEETING  
HELD IN WASHINGTON, D.C. ON FRIDAY, 2 JUNE 1995

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## S1/416

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## MINUTES

### ACCREDITED STANDARDS COMMITTEE ON ACOUSTICS, S1 U.S. TAG for ISO/TC 43 ACOUSTICS and IEC/TC 29 ELECTROACOUSTICS,

Washington, D.C.

Friday, 2 June 1995

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The meeting was called to order by Mr. G.S.K. Wong, Chair S1, at 3:00 PM, in Meeting Room 17, the Washington, D.C. Renaissance Hotel.

#### ORGANIZATIONAL MEMBERS PRESENT

AT&T  
NIST  
AIHA  
ASA; US CERL  
ASA Rep. S1

Mayer, M.S.  
Nedzelnitsky, V.  
Royster, L.H.  
Schomer, P.D.  
Wong, G.S.K., Chair S1

**INDIVIDUAL EXPERTS PRESENT**

Ehrlich, S.L.	Stan Ehrlich Associates
Gross, E.E.	Consultant
Guernsey, D.	R.M. Guernsey & Associates
Johnson, D.L.	Chair S12
Marsh, A.H.	Chair S1/WG 2
Young, R.W.	Consultant

**OTHERS PRESENT**

Brenig, A.	ASA Standards Manager
Daigle, G.	Chair S1/WG 20
Embleton, T.F.W.	ASA Standards Director
Evans, D.J.	NIST; Chair S2
Krishnappa, G.	Chair, S1/WG 12
Krug, R.W.	Chair, S1/WG 17
Lindsay, J.	ANSI Staff
Nyborg, W.L.	Chair, S1/WG 22
Peppin, R.J.	Chair S1/WG 16
Pope, J.	Chair S1/WG 5
Queen, D.	AES
Royster, J.D.	Environmental Noise Consultants
Sutherland, L.	Member S1/WG 2
Wagner, R.	NIST
Wu, L.	NRC, Canada

**1. Approval of the Minutes of Austin, Texas meeting held 1 December 1994 (S1/409).**

Upon motion made and seconded, it was

VOTED            to approve the Minutes of the S1 meeting (S1/409) held  
on 1 December 1994, as circulated.

**2. Organization**

- a) A list of current working groups is attached (see **ATTACHMENT A**).
- b) New organizational members of S1: None to date.
- c) New working groups: None to date.
- d) Personnel changes: None to date.
- e) A summary of activities is given in **ATTACHMENT B**.

3. Standards approved by ANSI in 1995 and published (or being published) by ASA

Standards published by ASA can be ordered from the following address:

Acoustical Society of America  
Standards and Publications Fulfillment Center  
P.O. Box 1020  
Sewickley, PA 15143-9998

Telephone: (412) 741-1979  
Telefax: (412) 741-0609

NOTE: 20% discount on list price is available to ASA individual and sustaining members for all standards published by ASA.

4. Organizational matters and reports on working groups, including reports on letter ballots and international matters

a) S1/Advisory - Advisory Planning Committee to S1 - R.W. Krug, Chair

The list of current S1 standards is attached (see ATTACHMENT C).

b) S1/WG1 - Standard Microphones and their Calibration - V. Nedzelnitsky, Chair

Please see ATTACHMENT D for Mr. Nedzelnitsky's report.

At the last meeting, Mr. Wong asked Mr. Nedzelnitsky when he expected to have a draft of the proposed revision of ANSI S1.12-1967 (R 1986) for ballot. Mr. Nedzelnitsky said that the document was prepared and only required the inclusion of some non-technical material in order to be ready for ballot. Mr. Nedzelnitsky also said he would attempt to prepare the revision of ANSI S1.10-1966 (R 1986) for ballot.

At the meeting, Mr. Wong asked Mr. Nedzelnitsky to provide the proposed revision of ANSI S1.12-1967 by no later than 1 September 1995. If the document was not forthcoming by that date, Mr. Wong said that he would propose to turn it over to the new Subcommittee established in ASACOS to editorially prepare documents for ballot, in order that it could be sent to S1.

Mr. Nedzelnitsky said that he believed the deadline could be managed.

4. Organizational matters and reports on working groups, including reports on letter ballots and international matters (continued)

c) S1/WG2 - Attenuation of Sound in the Atmosphere - A.H. Marsh, Chair

ANSI S1.26-199X Method for Calculation of the Absorption of Sound in the Atmosphere (proposed revision of ANSI S1.26-1978) draft dated March 1995, was sent to 30 Day Review (30 Day Review S1.26/414) on 29 March 1995 with closing date of 28 April 1995. The document was also sent to ANSI for second public comment on 29 March 1995. The dates for Public Comment are 28 April to 27 June 1995.

d) S1/WG4 - Measurement of Sound Pressure Levels in Air - M. Nobile, Chair

The proposed revision of ANSI S1.13-1971 (R 1986) Measurement of Sound Pressure Levels in Air. Part 1: Requirements and Procedures, was sent to S1 ballot (LB/S1.13/401) on 14 March 1994. The ballot was closed on 25 April 1994 with results as given in previous Minutes (S1/403).

The negative comments are in the process of being resolved. Once the correspondence has been received by the Standards Secretariat with the revised text, the document will be processed further under ANSI procedures.

e) S1/WG5 - Band Filter Sets - J. Pope, Chair

It was agreed previously that a revision of ANSI S1.11-1986 should be prepared, looking at the matter of digital filters. In the interim, ANSI S1.11-1986 was reaffirmed in 1994.

Mr. Pope's last report is attached (ATTACHMENT E).

f) S1/WG12 - Specification for and Calibration of Instruments to Measure Acoustic Intensity - G. Krishnappa, Chair

Proposed ANSI Standard S1.9-199X Instruments for the Measurement of Sound Intensity, draft dated November 1993, was submitted to S1 ballot (LB/S1.9/396) on 22 December 1993. The ballot was closed on 2 February 1994 with results as given in previous Minutes (S1/403).

At the meeting, Mr. Krishnappa said he was working on resolving the negative votes on this document, which would be sent to 30-Day Review if technical changes had been made in the interim in order to satisfy the negative voters. Mr. Krishnappa's report is attached (see ATTACHMENT F).

4. Organizational matters and reports on working groups, including reports on letter ballots and international matters (continued)

g) S1/WG15 - Noise Canceling Microphones - R. McKinley, Chair

Mr. Wong said that this working group had not provided any material for a long period and that it would come under the newly proposed guidelines for setting time limits for the preparation of proposed standards for review.

h) S1/WG16 - FFT Acoustical Analyzers - R.J. Peppin, Chair

Mr. Peppin submitted a report at the meeting (see ATTACHMENT G).

At the meeting, Mr. Wong suggested that Mr. Peppin might find it better to prepare a technical report rather than a standard at this time.

i) S1/WG17 - Sound Level Meters and Integrating Sound Level Meters - R.W. Krug, Chair

The proposed ANSI Standard Specification for Integrating-averaging sound level meters, draft dated June 1992, was sent to S1 ballot (S1.43/370) on 20 July 1992. The ballot was closed on 31 August 1992 and the results were given in previous S1 Minutes (S1/375). Mr. Krug said previously that he was trying to resolve the negative votes. 5 June 1994.

At the meeting, Mr. Wong urged that action be taken on further processing this proposed standard and Mr. Krug said that he would do so.

j) S1/WG19 - Insertion Loss of Windscreens - R. Peppin, Chair

Mr. Peppin submitted a report at the meeting (see ATTACHMENT H).

k) S1/WG20 - Ground Impedance - G. Daigle, Chair

Mr. Daigle reported on his working group meeting held on 31 May 1995 (see ATTACHMENT I).

4. Organizational matters and reports on working groups, including reports on letter ballots and international matters (continued)

- l) S1/WG21 - Electromagnetic Susceptibility (EMS) of Acoustical Instruments - J. Seiler, Chair

Mr. Seiler's report on the activities of the working group is attached (ATTACHMENT J).

- m) S1/WG22 - Cavitation Detecting and Monitoring - W.L. Nyborg, Chair

Mr. Nyborg has reported as follows:

Continued progress in the preparation of our document.

We are sponsoring a special session as "Cavitation Detection and Monitoring" (the subject of our report) at the St. Louis meeting of the ASA.

- n) S1/WG23 - Underwater Acoustics - M.J. Buckingham, Chair

Mr. Buckingham has prepared a feasibility study and draft outline for the proposed standardization work in underwater acoustics (see ATTACHMENT K for his report).

5. Work items without working groups

None to date.

6. International Matters

- a) International Electrotechnical Commission (IEC)

- IEC/TC 29 Electroacoustics - V. Nedzelnitsky, Technical Advisor

- (i) A list of documents submitted to the U.S. for vote and/or comment is given in ATTACHMENT L. The next meeting of IEC/TC 29 will be held in Pretoria, South Africa, from Monday 19 to Friday, 23 February 1996.

Mr. Nedzelnitsky's report is given in ATTACHMENT M.

6. International Matters (continued)

a) International Standardization Organization (ISO)

- ISO/TC 43 Acoustics and ISO/TC 43/SC1 Noise - H.E. von Gierke, TAG Chair

- (i) A report has been prepared (see ATTACHMENT N). Mr. Schomer's report is given in ATTACHMENT O.

The next meeting of ISO/TC 43 and ISO/TC 43/SC1 will be held in Pretoria, South Africa, from Monday, 26 February to Friday 1 March 1996.

7. Review of Standards more than five years in existence

- a) Section 4.4 of the ANSI Procedures for the Development and Coordination of American National Standards requires that each complete American National Standard (including its supplements and addenda) be reviewed at least every five years to determine whether it should be reaffirmed, revised, or withdrawn. Provision is made for extension of time, except that no extension is granted beyond ten (10) years from the date of approval by ANSI.

It was agreed at the last meeting that recommendations for the reaffirmation and/or revision of the following standards should be obtained. Accordingly, each standard was assigned to the individual(s) noted below:

- ANSI S1.4-1993 R.W. KRUG  
Specification for Sound Level Meters and ANSI S1.4A-1985 Amendment to ANSI S1.4-1983
- ANSI S1.6-1984 (R 1990) T.F.W. EMBLETON  
American National Standard Preferred Frequencies Frequency Levels, and Band Numbers for Acoustical Measurements
- ANSI S1.8-1989 T.F.W. EMBLETON  
American National Standard Reference Quantities for Acoustical Levels
- ANSI S1.40-1984 J. SEILER  
American National Standard Specification V. NEDZELNITSKY  
for Acoustical Calibrators R.W. KRUG

7. Review of Standards more than five years in existence (continued)

Recommendations on the above standards were obtained and a ballot sent to S1 (LB/S1/398) on 20 January 1994. The ballot was closed on 11 March 1994 with results as given in previous Minutes (S1/403).

The proposed reaffirmations were submitted to ANSI for Public Comment on 2 March 1994, and to ANSI for formal approval on 12 October 1994. ANSI officially approved the above reaffirmations on 17 November 1994.

8. Extension of time for formal submittal of proposed standards to ANSI

According to ANSI procedures, once a proposed standard has been submitted to ANSI for Public Comment, the document must be submitted to ANSI for formal approval within a specified period of time, or be withdrawn from consideration. (This would entail the document's presentation again, starting with the Public Comment process within ANSI.)

Accordingly, requests for extensions of time for formal submittal are made to ANSI in relevant cases. Therefore, further to the request of the Standards Secretariat, ANSI has granted extensions of time for formal submittal of the following proposed standards:

<u>ANSI</u> <u>BSR Draft No.</u>	<u>ANSI</u> <u>Extension</u> <u>Granted Until</u>
S1.9	31 December 1995
S1.43	31 December 1995
S3.5	31 December 1995
S12.17	30 June 1995
S12.19	31 December 1995

9. New International Standards Available

- CEI/IEC Publication 118-1-1995 Third Edition - Hearing Aids: Part 1: Hearing aids with induction pick-up coil input
- CEI/IEC 1265 Publication 1265-1995 First Edition - Electroacoustics: Instruments for measurement of aircraft noise - Performance requirements for systems to measure one-third-octave band sound pressure levels in noise certification of transport-category aeroplanes
- IEC Publication 118-7 Amendment 1-1994 Hearing Aids: Part 7: Measurement of the performance characteristics of hearing aids for quality inspection for delivery purposes

9. New International Standards Available (continued)

- IEC Publication 118-0 Amendment 1-1994 Hearing Aids: Part 0: Measurement of electroacoustical characteristics
- ISO 389-2-1994 Acoustics - Reference zero for the calibration of audiometric equipment - Part 2: reference equivalent threshold sound pressure levels for pure tones and insert earphones
- ISO 389-3:1994 Acoustics - Reference zero for the calibration of audiometric equipment - Part 3: Reference equivalent threshold force levels for pure tones and bone vibrators.
- ISO 389-4:1994 Acoustics - Reference zero for the calibration of audiometric equipment - Part 4: Reference levels for narrow-band masking noise.
- ISO 3744-1994 Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane

10. Procedural Ballots

- a) According to ANSI's procedures, under which the Accredited Standards Committees operate, the Officers of the Standards Committees are to be confirmed (at the beginning of their terms), as well as Individual Experts (the latter to be confirmed annually) by the respective Standards Committees.

The Officers and Individual Experts are proposed by the ASA Committee on Standards (ASACOS), as the Secretariat for the Standards Committees, in connection with the Chairs of the respective Standards Committees.

A letter ballot was circulated to S1 on 20 December 1994 (LB/S1/410) on the proposed appointments for 1995/1996. The ballot was closed on 31 January 1995 with results as given in **ATTACHMENT P**. Accordingly, with unanimous approval of the nominations, the appointments will take effect following the June 1995 meeting of ASA.

- b) Following recommendations at the last S1 meeting (S1/409), a ballot was taken to disband working groups S1/WG8 Acoustical and Electroacoustical Vocabulary, and S1/WG18 Ultrasonic Sound Source Leak Simulation.

Accordingly, S1/LB/411 was circulated to S1 on 7 February 1995 and closed on 6 April 1995 with results as given in **ATTACHMENT Q**. As a result of this ballot, the two working groups noted above have now been disbanded.

## 11. New Business

### a) Editorial Revision of the Accredited Standards Committee Procedures

The Accredited Standards Committee Procedures for the Development and Coordination of American National Standards, as followed by the Acoustical Society of America, in its responsibility for the Secretariat of the four S Committees (S1, S2, S3 and S12) were approved by ANSI on 26 April 1988, with amendments to those Procedures approved by ANSI on 19 August 1991.

The Acoustical Society has now made editorial changes to these Procedures, in accordance with the changes in the ANSI Procedures as noted in the 9 September 1993 Procedures to ensure that, in all respects, they are in compliance with the ANSI Procedures. Additionally, the editorial changes made to the Accredited Standards Committee Procedures followed by the Acoustical Society will encompass, and do not deviate from, any of the changes in the ANSI Procedures (circulated as of 14 October 1994).

Accordingly, these amended procedures were submitted to ANSI for approval (November 1994 and January 1995). We have received a letter from ANSI dated 3 April 1995, acknowledging that the amendments to the accredited standards committee procedures are not considered substantive and that the ANSI accreditation of the four S Committees (SE, S2, S3 and S12) is maintained using the revised operating procedures (see ATTACHMENT R).

### b) Proposed guidelines for working group chairs of S1

Mr. Wong stated that he had prepared some proposed guidelines for S1 working group chairs which he proposed to circulate for implementation on a trial basis. Mr. Wong said that these guidelines had been modeled after the guidelines set out by ISO and IEC to develop timelines for the development of standards at different stages, and to ensure that the standards do not fall into a time lapse during any of the phases.

There was discussion at the meeting on the proposed guidelines which had not yet been circulated to S1, and the question of whether, and at what stage, technical comments can still be made to a document under consideration.

It was therefore decided that the proposed guidelines would first be sent to S1 for ballot on whether to use them on a trial basis.

## 12. Future Meetings of S1

The next meeting of Accredited Standards Committee S1 will be held on Thursday, 30 November 1995 in St. Louis, Mo., commencing at 1:30 p.m.

13. Adjournment

The S1 meeting was adjourned at 4:10 P.M.

A handwritten signature in black ink, appearing to read 'A. Brenig', with a long horizontal flourish extending to the right.

Avril Brenig  
ASA Standards Manager

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**ACCREDITED STANDARDS COMMITTEE ON ACOUSTICS - S1**

**SECRETARIAT:** Acoustical Society of America

**SCOPE:** Standards, specifications, methods of measurement and test, and terminology in the field of physical acoustics including architectural acoustics, electroacoustics, sonics and ultrasonics, and underwater sound, but excluding those aspects which pertain to biological safety, tolerance and comfort.

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**CHAIR:** G.S.K. Wong  
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<b><u>WORKING GROUP</u></b>	<b><u>TITLE AND SCOPE</u></b>	<b><u>CHAIR</u></b>
(a) S1/Advisory	<p><u>S1 Advisory Planning Committee</u> - Be cognizant of needs within the scope of the Committee, and organize those needs in accordance with priority, and other relevant factors, into a coherent three year plan for Committee activity. This three year plan for the preparation of standards should include those which need updating, having regard to the international work items and standards, and the need for timely review (reaffirmations, revisions, withdrawals, etc.) of all national standards, and the priority of new standards needs.</p> <p>The plan of action should be developed with attention to (i) the overall Committee scope, (ii) its technological needs, (iii) the relation of national to international standardization, (iv) the rate of development of new standards, and (v) the timeliness of the preparation of revisions of standards.</p>	<u>R.W. Krug</u>

WORKING GROUP	TITLE AND SCOPE	CHAIR
(b) S1/WG1	<u>Standard Microphones and their Calibration</u> (counterpart to IEC/TC29/WG5 and IEC/TC 29/WG8)- Revision of S1.10-1966 (R 1986) Method for the Calibration of Microphones and S1.12-1967 (R 1986) Specification for Laboratory Standard Microphones.	<u>V. Nedzelnitsky</u>
(c) S1/WG2	<u>Attenuation of Sound in the Atmosphere</u> - Preparation of standards describing recommended procedures to account for attenuation of sound waves propagating through the atmosphere.	<u>A.H. Marsh</u>
(d) S1/WG4	<u>Measurement of Sound Pressure Levels in Air</u> - Revision of S1.13-1971 (R 1986) Methods for the Measurement of Sound Pressure Levels.	<u>M.A. Nobile</u>
(e) S1/WG5	<u>Band Filter Sets</u> - Review of international documents/standards	<u>J. Pope</u>
(f) S1/WG12	<u>Specifications for and Calibration of Instruments to Measure Acoustic Intensity</u> - To develop a standard specifying the performance characteristics and calibration procedures of instruments to measure acoustic intensity at an arbitrary point in space.	<u>G. Krishnappa</u>
(g) S1/WG15	<u>Noise Canceling Microphones</u> - Preparation of standards defining directional (noise discriminating) and noise canceling microphones and microphone systems and describing recommended procedures for measuring their performance in a noise field.	<u>R.L. McKinley</u>
(h) S1/WG16	<u>FFT Acoustical Analyzers</u> - to develop a specification standard that will apply to Fast Fourier Transform (FFT) analyzers.	<u>R.J. Peppin</u>
(i) S1/WG17	<u>Sound Level Meters and Integrating Sound Level Meters</u> - to develop a standard for specifying exponential and integrating averaging sound level meters.	<u>R.W. Krug</u>

WORKING GROUP	TITLE AND SCOPE	CHAIR
(j) S1/WG19	<u>Insertion Loss of Windscreens</u> - to develop a test method that characterizes windscreens so that users can know the effect of windscreens on measurements, including self noise. Specifically to consider screens that fit commercial (1/2" and 1/4") measuring microphones, commonly used for outdoor and indoor measurements in conditions with wind. Also, screens for intensity probes would be considered.	<u>R.J. Peppin</u>
(k) S1/WG20	<p><u>Ground Impedance</u></p> <p>i) <u>Measurement of Ground Impedance</u> - to develop a standard describing recommended procedures to characterize and the instrumentation to measure the acoustic properties of a wide variety of natural ground surfaces outdoors.</p> <p>ii) <u>Attenuation of Sound due to the Ground</u> - to develop a standard describing recommended procedures to account for the attenuation of sound propagating in the presence of the ground.</p>	<u>G.A. Daigle</u>
(l) S1/WG21	<p><u>Electromagnetic Susceptibility (EMS) of Acoustical Instruments</u> - Electromagnetic fields can interfere with the operation of instruments by introducing errors and producing erroneous readings. The proposed working group will study the susceptibility requirements for acoustical instrumentations operating in electromagnetic fields. Test methods will be recommended.</p> <p>To facilitate uniform implementation and understanding, the working group will study and recommend criterion levels, against which the susceptibility of the instruments can be evaluated.</p>	<u>J.P. Seiler</u>

WORKING GROUP	TITLE AND SCOPE	CHAIR
(m) S1/WG22	<u>Cavitation Detecting and Monitoring</u> Equipment and techniques are to be described and compared (1) for detection and characterization of small gas bodies which may serve as sites for cavitation and (2) for monitoring cavitation activity. Passive methods employ optical, electrical and acoustical techniques. Active methods depend on physical, chemical or biological effects produced by the cavitation. Terminology is to be defined. Capabilities and limitations of the methods are to be discussed for various applications.	<u>W.L. Nyborg</u>
(n) S1/WG23	<u>Underwater Acoustics</u> -acoustic propagation -scattering -ambient noise -seismic surveying -acoustics telemetry -acoustics imaging -inversion techniques -active & passive sonars (transduction) -calibration	<u>M.J. Buckingham</u>

STATUS REPORT

FIELD: STATUS: ACOUSTICS

COMMITTEE: S1

DESIGNATION/ EDITION	SUBJECT OR TITLE	STATUS	ACTIVITY	METHOD	COMMENTS OR EXPECTED DATE OF SUBMISSION TO ANSI
S1.1-1994	Acoustical Terminology (including Noise)	UD		S	Replaces ANSI S1.1-1960
S1.2-1962	Method for the Physical Measurement of Sound	withdrawn	0	S	Superseded by series (R 1976) of sound power standards (S12.30 series)
S1.4-1983 (R 1994)	Sound Level Meters, Specifications for includes:	UD; ES			
S1.4A-1985	Amendment to ANSI S1.4-1983 (S1/WG2)	UD			
S1.6-1984 (R 1994)	Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements	UD		S	
S1.8-1989 (R 1994)	Preferred Reference Quantities for Acoustical Levels	UD	S		
S1.9-199X	Sound Intensity Standard (S1/WG12)	NS	3	S	
S1.10-1966 (R 1986)	Calibration of Microphones, Method for the (revision of Z24.4 and Z24.11) (S1/WG1)	RV	1		

STATUS	ACTIVITY	METHOD
NS - NEW STD IN PROCESS RF - REAFFIRMATION IN PROC. RV - REVISION IN PROCESS WD - WITHDRAWAL IN PROCESS ES - ENVIRONMENTAL SOUND SP - SUBMITTED PINS FORM	0-NONE 1-FORMATIVE STAGE 2-DRAFTING STANDARD 3-VOTING ON PROPOSAL	C-ACCREDITED CANVASS O-ACCREDITED ORGANIZATION S-ACCREDITED STDS. COMMITTEE X-NOT INTENDED FOR ANSI
NR - NEEDS REVIEW AP - ANSI APPROVED OP - OUT OF PRINT NA - NOT YET AVAIL. UD - UP-TO-DATE	4-ANSI STANDARDS ACTION 5-OBJECTIONS BEING CONSIDERED 6-ANSI CONSIDERING APPROVAL	

**STATUS REPORT**

**FIELD:**                      **STATUS:**                      **ACOUSTICS**

**COMMITTEE:**                      S1

DESIGNATION/ EDITION	SUBJECT OR TITLE	STATUS	ACTIVITY	METHOD	COMMENTS OR EXPECTED DATE OF SUBMISSION TO ANSI
S1.11-1986 (R 1993)	Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters (S1/WG5)	UD		S	
S1.12-1967 (R 1986)	Laboratory Standard Microphones, Specification for (revision of Z24.8-1949) (S1/WG1)	RV	2	S	
S1.13-1971 (R 1994)	Measurement of Sound Pressure Levels, Methods for (S1/WG4)	RV;ES	2	S	
S1.14	DESIGNATION OPEN	NA	0		
S1.15	DESIGNATION OPEN	NA	0		
S1.16	DESIGNATION OPEN	NA	0		
S1.17	DESIGNATION OPEN	NA	0		
S1.18	DESIGNATION OPEN	NA	0		
S1.20-1988	Calibration of Underwater Electroacoustic Transducers (S1/WG9)	UD	0	S	

STATUS	ACTIVITY			METHOD
NS - NEW STD IN PROCESS RF - REAFFIRMATION IN PROC. RV - REVISION IN PROCESS WD - WITHDRAWAL IN PROCESS ES - ENVIRONMENTAL SOUND SP - SUBMITTED PINS FORM	NR - NEEDS REVIEW AP - ANSI APPROVED OP - OUT OF PRINT NA - NOT YET AVAIL. UD - UP-TO-DATE	0-NONE 1-FORMATIVE STAGE 2-DRAFTING STANDARD 3-VOTING ON PROPOSAL	4-ANSI STANDARDS ACTION 5-OBJECTIONS BEING CONSIDERED 6-ANSI CONSIDERING APPROVAL	C-ACCREDITED CANVASS O-ACCREDITED ORGANIZATION S-ACCREDITED STDS. COMMITTEE X-NOT INTENDED FOR ANSI

STATUS REPORTFIELD:                    STATUS:    ACOUSTICSCOMMITTEE:            S1

DESIGNATION/ EDITION	SUBJECT OR TITLE	STATUS	ACTIVITY	METHOD	COMMENTS OR EXPECTED DATE OF SUBMISSION TO ANSI
S1.22-1992	Scales and Sizes for Frequency Characteristics and Polar Diagrams in Acoustics (S1/WG10)	UD		S	
S1.24	DESIGNATION OPEN	SP	0	S	
S1.25-1991	Personal Noise Dosimeters, Specifications for (Revision of ANSI S1.25-1978) (S1/WG7)	UD		S	
S1.26-1978 (R 1989)	Method for Calibration of the Absorption of Sound by the Atmosphere (S1/WG2)	RV	2	S	
S1.40-1984 (R 1994)	Specification for Acoustical Calibrators	ES	0	S	
S1.XX-199X	Evaluation of Digital Instruments, Methods for	NS;NA	0		
S1.42-1986 (R 1992)	Design Response for Weighting Networks for Acoustical Measurements (S1/WG13)	UD	6	S	

STATUS	ACTIVITY			METHOD
NS - NEW STD IN PROCESS	NR - NEEDS REVIEW	O-NONE	4-ANSI STANDARDS ACTION	C-ACCREDITED CANVASS
RF - REAFFIRMATION IN PROC.	AP - ANSI APPROVED	1-FORMATIVE STAGE	5-OBJECTIONS BEING CONSIDERED	O-ACCREDITED ORGANIZATION
RV - REVISION IN PROCESS	OP - OUT OF PRINT	2-DRAFTING STANDARD	6-ANSI CONSIDERING APPROVAL	S-ACCREDITED STDS. COMMITTEE
WD - WITHDRAWAL IN PROCESS	NA - NOT YET AVAIL.	3-VOTING ON PROPOSAL		X-NOT INTENDED FOR ANSI
ES - ENVIRONMENTAL SOUND	UD - UP-TO-DATE			
SP - SUBMITTED PINS FORM				

STATUS REPORT

FIELD:                      STATUS:                      ACOUSTICS

COMMITTEE:                      S1

DESIGNATION/ EDITION	SUBJECT OR TITLE	STATUS	ACTIVITY	METHOD	COMMENTS OR EXPECTED DATE OF SUBMISSION TO ANSI
S1.43-199X	Complete Integrating Sound Level Meter, Specification for (incorporating parts of S1.4-1983) (S1/WG17)	NS;NA SP	2		
S1.XX-199X	Insertion Loss of Windscreens (S1/WG19)	NS;SP	1		
S1.XX-199X	Ground Impedance (S1/WG20)	NS;SP	2		

STATUS	ACTIVITY	METHOD
NS - NEW STD IN PROCESS RF - REAFFIRMATION IN PROC. RV - REVISION IN PROCESS WD - WITHDRAWAL IN PROCESS ES - ENVIRONMENTAL SOUND SP - SUBMITTED PINS FORM	0-NONE 1-FORMATIVE STAGE 2-DRAFTING STANDARD 3-VOTING ON PROPOSAL	C-ACCREDITED CANVASS O-ACCREDITED ORGANIZATION S-ACCREDITED STDS. COMMITTEE X-NOT INTENDED FOR ANSI
NR - NEEDS REVIEW AP - ANSI APPROVED OP - OUT OF PRINT NA - NOT YET AVAIL. UD - UP-TO-DATE	4-ANSI STANDARDS ACTION 5-OBJECTIONS BEING CONSIDERED 6-ANSI CONSIDERING APPROVAL	

## S1 STANDARDS ON ACOUSTICS

- |     |  |   |
|-----|--|---|
| 1)  | <u>ANSI S1.1-1994</u>  | Acoustical Terminology  |
| 2)  | <u>ANSI S1.4-1883 (R 1994)</u><br>(includes <u>ANSI S1.4A-1985 Amendment</u> ) | Specification for Sound Level Meters  |
| 3)  | <u>ANSI S1.6-1984 (R 1994)</u>   | Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements |
| 4)  | <u>ANSI S1.8-1989 (R 1994)</u>   | Reference Quantities for Acoustical Levels  |
| 5)  | <u>ANSI S1.10-1966 (R 1986)</u>  | Method for the Calibration of Microphones   |
| 6)  | <u>ANSI S1.11-1986 (R 1993)</u>  | Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters   |
| 7)  | <u>ANSI S1.12-1967</u>   | Specifications for Laboratory Standard Microphones                                    |
| 8)  | <u>ANSI S1.13-1971 (R 1994)</u>  | Methods for the Measurement of Sound Pressure Levels                                  |
| 9)  | <u>ANSI S1.20-1988 (R 1993)</u>  | Procedures for Calibration of Underwater Electroacoustic Transducers                  |
| 10) | <u>ANSI S1.22-1992</u>   | Scales and Sizes for Frequency Characteristics and Polar Diagrams in Acoustics        |
| 11) | <u>ANSI S1.25-1991</u>   | Specification for Personal Noise Dosimeters   |
| 12) | <u>ANSI S1.26-1978 (R 1989)</u>  | Method for the Calculation of the Absorption of Sound by the Atmosphere               |
| 13) | <u>ANSI S1.40-1984 (R 1994)</u>  | Specification for Acoustical Calibrators  |
| 14) | <u>ANSI S1.42-1986 (R 1992)</u>  | Design Response of Weighting Networks for Acoustical Measurements                     |

## S1/WG 1 Standard Microphones and their Calibration

Report of the Chairman, Victor Nedzelnitsky, June, 1995

This WG continues to prepare recommended USNC/IEC positions on corresponding IEC documents, including drafts on free-field calibration of laboratory standard microphones by the reciprocity technique and on specifications for laboratory standard microphones. An invited paper was presented at the Austin meeting of ASA on technical problems and discrepancies in the comparison of free-field reciprocity calibrations among European laboratories, and the apparent resolution of certain glaring discrepancies between NPL (U.K.) and DTH (Denmark) by calibration at NIST of one microphone that had been used in the European comparison. The latest draft documents are: 29/294/DIS, Draft IEC 1094-3: Measurement microphones, Part 3: Primary method for free-field calibration of laboratory standard microphones by the reciprocity technique, and 29/295/DIS, Draft IEC 1094-4: Measurement microphones, Part 4: Specifications for working standard microphones. These documents are being circulated to the members of S1/WG 1.

The 10th draft of ANSI S1.12-199x, Specifications for Laboratory Standard Microphones, the revision of ANSI S1.12-1967, is being revised for consistency with the new format and transmission on or about Sept. 1, 1995 to the ASA Standards Secretariat for S1 ballot, with copyright questions between ANSI and IEC to be addressed at that, or a higher, administrative level.

A handwritten first markup revision of ANSI S1.10-1966 (R1986) is in preparation for transmission about the end of this summer to a member of this WG (G. Wong) who volunteered to get it typed in Wordperfect 5.1 format, for circulation to the WG members for further comment.

**REPORT ON S1/WG5: BAND FILTER SETS**

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The membership of the working group is being contacted and expanded in anticipation of meeting in Washington, D.C. Recommendation (a self-nomination) for membership on the Working Group would be particularly helpful at this time. Working group member A. Marsh has volunteered to re-format the newly approved IEC filter document for our use.

J. Pope  
Chair, S1/WG5  
November 1994

**REPORT ON S1/WG12: SPECIFICATION FOR AND CALIBRATION OF  
INSTRUMENTS TO MEASURE ACOUSTIC INTENSITY**

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This working group meeting was held on 31 May 1995, to review the changes made in the revised document. The meeting was attended by six members.

In the first ballot cast by S1 members, there were 9 affirmative and 3 negative votes. Stated reasons for one negative vote was technical and the other two were editorial reasons. The negative vote call by Bruel and Kjaer, stating technical reasons, has been resolved to the satisfaction of their technical expert, incorporating the information provided by this expert. Detailed editorial comments were provided by Victor Nedzelnitsky. Most of his technical concerns and editorial comments have been resolved. Mr. Augspurger, NCAC, has cast the other negative vote stating editorial reasons without providing any detailed comments.

The document has been revised incorporating most of the suggested changes, both technical and editorial changes. The Chair will be writing letters to the members who have cast negative votes, asking for their withdrawal and explaining the changes made in the revised document. Three weeks will be given for their response to the Chair's letter.

As there are some technical changes, the document needs to be sent for a 30 day review.

After hearing from the three members, who have cast negative votes the document will be sent the Secretariat for a 30 day review.

The expected date of submission to the Secretariat will be around middle of July 1995.

G. Krishnappa  
Chair, S1/WG12  
2 June 1995

## REPORT ON S1/WG16: FFT ACOUSTICAL ANALYZERS

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Two events occurred that, at least temporarily rejuvenated the working group. First S1 Chair, G. Wong recruited his colleague to assist. (we recognized him by his leg - irons). The second was the original thought, made by an attendee after the meeting, that perhaps the "Signal Processing in Acoustics" group should be involved in this effort.

As a result, during the working group meeting we agreed (again) that perhaps a document titled "How to use an FFT" might be easier to write and will not need the participation and efforts of manufacturers, who clearly are not interested in this subject. The chair will start with a rough outline for a paper/book/etc and get needed help from other attendees (see below). Also, we await help and advice from Chair of "Signal Processing," and others who may be interested in participating. We will meet in St. Louis.

Attendees: N. Trane, G. Rasmussen, J. Pope, L. Wu, R. Peppin

- \* Topics to be included.
  - What to report when reporting date;
  - What is need in a measurement;
  - What not to do when measuring;
  - Features of FFTs

R.J. Peppin  
Chair, S1/WG16  
2 June 1995

**REPORT ON S1/WG19: INSERTION LOSS OF WINDSCREENS**

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The working group met on 31 May 1995, with three persons present. One was the Chair, one was the working group member, and one was a visitor. The overwhelming consensus was that, while this working group is critical for all acoustical measurements using a windscreen, clearly the opinion is shared by the working group alone since we are unable to generate interest.

We will meet at least one more time, in St. Louis.

Attendees: N.Trane, J. Kopec, R. Peppin

R.J. Peppin  
Chair, S1/WG19  
2 June 1995

## REPORT ON S1/WG20: GROUND IMPEDANCE

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The working group met on Wednesday, 31 May 1995, in Washington, D.C., to review the current draft of the proposed standard. Plans were formulated to work towards a final draft.

On a technical note, the working group has focussed on a procedure involving a free field measurement of the sound field from a point source using two microphones. Therefore, impedance will not be measured directly but inferred from level difference measurements using a set of templates. This will be the preferred procedure covered by the standard. The standard will refer to existing ASTM standards for measurement involving the use of an impedance tube.

Gilles Daigle  
Chair, S1/WG20  
2 June 1995

## REPORT OF ACTIVITIES

### ANSI S1-WG21 ELECTROMAGNETIC SUSCEPTIBILITY OF ACOUSTICAL INSTRUMENTS WORKING GROUP

The following activities have taken place since the Austin, Texas meeting of the Working Group:

1. As discussed at the Austin, Texas meeting, the draft document has been split into a "Standard" and a "Technical Report". The documents are being retyped in accordance with the ANSI Standards Guidelines. It is expected that they will be distributed to the working group, and others, by June 1, 1995 for comment.
2. T. Kuemmel will be presenting a paper on the working group activities at the ASA Spring Meeting in Washington, D.C.
3. J. Seiler and T. Kuemmel attended a meeting of the TC29 adhoc working group on EMC in London, U.K. A meeting report is available from Mr. Seiler.

There will not be a working group meeting in Washington, D.C., however one will be scheduled for St. Louis during the fall ASA meeting, November 27 - December 1, 1995. During the interim, comments on the draft standard and draft technical report will be sought from the working group and others.

J.P. Seiler, Chair, S1/WG21  
May 9, 1995

**Report on the Working Group on Standards in Underwater Acoustics  
(S1/WG23)**

It has been agreed that the "Environmental Acoustics Pocket Handbook" compiled for the Office of Naval Research will be adapted and produced as an ASA standards document. Dr. Edmund Sullivan is currently seeking permission from ONR to use some or all of the material in the handbook.

A Feasibility Study for the Development of a Handbook on Standards for Underwater Acoustics was completed and submitted in November 1994. A copy is attached.

Michael J. Buckingham  
Chairman, S1/WG23  
28 May 1995

OFFICE OF THE  
STANDARDS SECRETARIAT

120 WALL STREET, 32nd FLOOR, NEW YORK, NEW YORK 10005-3993

AVRIL BRENIG, Dr. P. H.  
STANDARDS MANAGERTelephone (212) 248-0373  
Telefax (212) 248-0146**IEC/TC 29 ELECTROACOUSTICS****U.S. TECHNICAL ADVISOR: V. NEDZELNITSKY**DOCUMENTS PROCESSED BY THE ASA STANDARDS SECRETARIAT  
FROM SEPTEMBER 1994 TO APRIL 1995

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COORDINATOR	TAG	DRAFT INTERNATIONAL STANDARDS (DIS)
A.H. Marsh	S1	<u>Second Draft IEC 1260</u> - Electroacoustics - Octave-Band and Fractional-Octave-Band Filters

announced to **S1** (S1/412) on 6 March 1995.

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COORDINATOR	TAG	COMMITTEE DRAFTS (CDs)
D.A. Preves	S3	<u>282 Second CD</u> : Dimensions of Electrical connector system for hearing aids

announced to **S3** (S3/388) on 23 September 1994. The U.S. position, NEGATIVE WITH COMMENTS, was submitted to USNC by the U.S. Technical Advisor on 20 December 1994, and from USNC to IEC on 27 December 1994.

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J. Agnew	S3	<u>293 First IEC/CD 1670</u> - Hearing Instruments - Digital Interface
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announced to **S3** (S3/396) on 24 February 1995. The U.S. position, NEGATIVE WITH COMMENTS, was submitted to USNC by the U.S. Technical Advisor on 20 April 1995, and from USNC to IEC/TC 29 Secretary on 27 April 1995.

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V. Nedzelnitsky	S1	<u>First IEC/CD 296</u> - Electroacoustics - Sound Calibrators (revision of IEC 942-1988, including test procedures)
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announced to **S1** (S1/413) on 6 March 1995.

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**NIST**

**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899

COMMITTEE CORRESPONDENCE

Building 233 (Sound), Room A147

June 1, 1995

REPORT TO: ASACOS, TAG for TC 29 Electroacoustics, and other  
directly and materially interested parties

From: Victor Nedzelnitsky, Sc.D. *VN*  
Technical Adviser to USNC/IEC  
for TC 29 Electroacoustics

SUBJECT: Activities concerning IEC/TC 29

1. Published copies of the following IEC International Standards have been received by USNC/IEC. These Standards can be purchased at the indicated prices (which may have changed due to currency fluctuations, etc., since this information was furnished by ANSI), plus shipping and handling, from USNC/IEC, 11 West 42nd Street, New York, NY 10036, telephone 212-642-4936, FAX (for sales only) 212-302-1286.

IEC 645-3: 1994 Audiometers, Part 3: Auditory test signals of short duration for audiometric and neuro-otological purposes, First edition, \$43.00

IEC 645-4: 1994 Audiometers, Part 4: Equipment for extended high-frequency audiometry, First edition, \$47.00

IEC 118-1: 1995 Hearing aids, Part 1: Hearing aids with induction pick-up coil input, Third edition, \$40.00

IEC 1265-1995 Electroacoustics - Instruments for measurement of aircraft noise - Performance requirements for systems to measure one-third-octave band sound pressure levels in noise certification of transport-category aeroplanes, First edition, \$61.00

2. Documents received and/or processed for ballot or comment are announced via the ASA Standards Secretariat and are listed separately in the ASACOS/S1/S3 Minutes. Consequently, a list is not repeated in this report.

3. Meetings of TC 29, its WGs, and of OIML (Organisation Internationale de Metrologie Legale, known in English as

International Organization for Legal Metrology) TC 13, Measuring instruments for acoustics and vibration, were held in London, U.K. in November, 1994. Detailed reports of those meetings are contained in my "Summary Foreign Trip Report" dated March 14, 1995, with numerous attached documents. Copies are available on request from the ASA Standards Secretariat or from me. Some of the most notable activities concern electromagnetic compatibility (especially susceptibility) of acoustical instruments.

4. The next meeting of IEC TC 29 Electroacoustics and its WGs will be held in Pretoria, South Africa, February 19-23, 1996. As soon as registration material for delegates to the TC 29 meetings is received via USNC/IEC, it will be distributed for return to the Secretary, USNC/IEC. Expert members of WGs most probably will hear directly from their WG Conveners about their WG meetings before the delegate registration material is received.

5. A meeting of OIML TC 13, Measuring instruments for acoustics and vibration, will probably be held in London, U.K. or Frankfurt, Germany just before, or just after, the TC 29 meetings. As soon as more particulars are resolved, I will work with Dr. Sam Chappell of NIST, the U.S. representative on this committee, to contact U.S. experts who, with Dr. Chappell's authorization, may be able to attend and to contribute to this meeting in areas closely related to their responsibilities for TC 29 and its WGs.

CC:

A. V. Brenig  
S. E. Chappell  
D. G. Eitzen  
R. C. Geiseman  
C. T. Zegers

**IEC/TC 43 ACOUSTICS and ISO/TC 43/SC1 NOISE**

U.S. TAG Chair: P.D. Schomer  
U.S. TAG Vice Chair: H.E. von Gierke

DOCUMENTS PROCESSED BY THE ASA STANDARDS SECRETARIAT  
FROM SEPTEMBER 1994 TO APRIL 1995

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The following documents were received for VOTE and/or COMMENT by the U.S. Member Body:

<b>COORDINATOR</b>	<b>TAG</b>	<b>DRAFT INTERNATIONAL STANDARDS (DIS)</b>
R.M. Guernsey	S12	<u>ISO/DIS 11821</u> - Acoustics - Determination of the in situ sound attenuation of a removable screen

announced to S12 (S12/308) on 15 September 1994. The U.S. position ABSTENTION WITH COMMENTS, was submitted to ANSI on 17 February 1995, and from ANSI to ISO on 23 February 1995.

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A.H. Marsh	S1	<u>ISO/DIS 266</u> - Acoustics - Preferred frequencies [Revision of the First edition (ISO 266:1975)]
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announced to S1 (S1/406) on 26 September 1994. The U.S. position, NEGATIVE WITH TECHNICAL COMMENTS, was submitted to ANSI on 1 February 1995, and from ANSI to ISO on 9 February 1995.

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W.A. Flint	S12	<u>ISO/DIS 6395:1988/DAM 1</u> - Acoustics - Measurement of exterior noise emitted by earth-moving machinery - Dynamic test
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announced to S12 (S12/310) on 14 November 1994. The U.S. position, AFFIRMATIVE WITH EDITORIAL COMMENTS, was submitted to ANSI on 1 February 1995, and from ANSI to ISO on 16 February 1995.

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COORDINATOR	TAG	DRAFT INTERNATIONAL STANDARDS (DIS)
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R.J. Peppin	S12	<u>ISO/DIS 3746.2</u> - Acoustics - Determination of sound power levels of noise sources using sound pressure - survey method using an enveloping measurement surface over a reflecting plane
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announced to S12 (S12/316) on 24 January 1995. The U.S. position, NEGATIVE WITH COMMENTS, was submitted to ANSI on 28 February 1995, and from ANSI to ISO on 2 March 1995.

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R. Lotz	S12	<u>ISO/DIS 14605</u> - Acoustics - Measurement of Airborne Noise Emitted by Computer and Business Equipment (Proposed rev. of ISO 7779-1988)
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announced to S12 (S12/315) on 11 January 1995. The U.S. position, CONDITIONALLY AFFIRMATIVE WITH COMMENTS, was sent to ANSI on 18 April 1995, and from ANSI to ISO on 28 April 1995.

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D.L. Johnson	S12	<u>ISO/DIS 9612.2</u> - Acoustics - Guidelines for the Measurement and Assessment of exposure to noise in a working environment
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announced to S12 (S12/319) on 24 January 1995. The U.S. position, AFFIRMATIVE WITH COMMENTS, was sent to ANSI on 28 February 1995, and from ANSI to ISO on 2 March 1995.

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R.M. Guernsey	S12	<u>ISO/DIS 11691.2</u> - Acoustics - Measurement of Insertion Loss of Ducted Silencers without Flow - Laboratory Survey Method
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announced to S12 (S12/321) on 24 February 1995. The U.S. position, NEGATIVE WITH COMMENTS, was sent to ANSI on 28 March 1995, and from ANSI to ISO on 5 April 1995.

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W.H. Flint	S12	<u>ISO/DIS 6393</u> - Acoustics - Measurement of exterior noise emitted by earth-moving machinery - Stationary test conditions
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announced to S12 (S12/322) on 20 April 1995.

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COORDINATOR	TAG	DRAFT INTERNATIONAL STANDARDS (DIS)
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W.H. Flint	S12	<u>ISO/DIS 6394</u> - Acoustics - Measurement at the operator's position noise emitted by earth-moving machinery - Stationary test conditions
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announced to S12 (S12/322) on 20 April 1995.

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R.M. Guernsey	S12	<u>ISO/DIS 5135</u> - Acoustics - Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation room
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announced to S12 (S12/324) on 20 April 1995.

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COORDINATOR	TAG	COMMITTEE DRAFTS (CD)
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C.W. Nixon	S12	<u>Second ISO/CD 4869-4</u> - Acoustics - Hearing protectors - Part 4: Methods for the measurement of level-dependent earmuffs
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announced to S12 (S12/318) on 24 January 1995. The U.S. position, NEGATIVE WITH COMMENTS, was submitted to ANSI on 28 February 1995, and from ANSI to ISO on 10 March 1995.

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R.J. Peppin	S12	<u>ISO/CD 3747</u> - Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering comparison method for use in an essentially reverberant field in situ (Revision of ISO 3747:1987)
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announced to S12 (S12/317) on 24 January 1995. The U.S. position, AFFIRMATIVE WITH COMMENTS, was submitted to ANSI on 28 February 1995, and from ANSI to ISO on 10 March 1995.

<u>COORDINATOR</u>	<u>TAG</u>	<u>DRAFT INTERNATIONAL STANDARDS (DIS)</u>
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DOCUMENTS CIRCULATED AD HOC

(Insufficient time for full Committee circulation)

R.M. Guernsey	S12	<u>ISO/DIS 11546-1.2 and ISO/DIS 11546-2.2 Acoustics -</u> Determination of sound insulation performances of enclosures <u>Parts 1 and 2</u>
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S12/Ad Hoc 9 sent to R.M. Guernsey on 2 May 1995.

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REPORT ON TC 43 AND TC 43/SC 1 ACTIVITIES  
February 24, 1995

TC 43/SC 1 activities are continuing at a furious pace and we expect to handle at least 50 work items this year--an average of one per week. We are managing to announce and get comments in on most of these documents. Because of short times provided by ISO, some documents are handled on an *ad hoc* basis.

The next meeting of TC 43 and TC 43/SC 1 will be in South Africa during the last two weeks of February, 1996. There is, as yet, no schedule for this meeting.

The following ISO documents are open for reaffirmation. I welcome the comments of all. If there are no comment on a document, then I plan to reaffirm it.

ISO 16:1975	1980	Standard tuning frequency(standard musical pitch)
ISO 532:1975	1980	Method for calculating loudness level
ISO 2922:1975	1980	Measurement of noise emitted by vessels on inland water-ways and harbours
ISO 1999:1990		Determination of occupational noise exposure and estimation of noise-induced hearing impairment.
ISO 4869-1:1990		Hearing protectors-Part 1: Subjective method for the measurement of sound attenuation
ISO 5136:1990		Determination of sound power radiated into a duct by fans-In-duct method
ISO 5136/COR1:1993		Technical Corrigendum 1
ISO 6393:1985		Measurement of airborne noise emitted by earth-moving machinery--Method for determining compliance with limits for exterior noise--Stationary test condition
ISO 7574-1:1985		Statistical methods for determining and verifying stated noise emission values of machinery and equipment--Part 1: General considerations and definitions
ISO 7574-2:1985		Statistical methods for determining and verifying stated noise emission value of machinery and equipment--Part 2: Methods for stated values for individual machines

- ISO 7574-3:1985      Statistical methods for determining and verifying stated noise emission value of machinery and equipment--Part 3: Simple (transition) method for stated values for batches of machines
- ISO 7574-4:1985      Statistical methods for determining and verifying stated noise emission value of machinery and equipment--Part 4: methods for stated values for batches of machines
- ISO 9645:1990      Measurement of noise emitted by two-wheeled mopeds in motion--Engineering method



# ACOUSTICAL SOCIETY OF AMERICA

OFFICE OF THE  
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AVRIL BRENIG, Dr. P. H.  
STANDARDS MANAGER

Telephone (212) 248-0373  
Telefax (212) 248-0146

6 February 1995

TO: G.S.K. Wong, Chair S1

RE: Administrative Letter Ballot LB/S1/410 sent to Accredited Standards Committee  
S1 on 20 December 1994 and Closed on 31 January 1995

SUBJECT: Approval of Officers, IEs and U.S. TAG Chairs for 1995/1996

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Enclosed please find tally of the above letter ballot, showing results  
as follows:

## CLASSIFICATION OF MEMBERS

AFFIRMATIVE VOTES	12	P - PRODUCER	5
NEGATIVE VOTES	0	C - CONSUMER	4
ABSTENTIONS	0	G - GOVERNMENT	6
NOT RETURNED	5	GI - GENERAL INTEREST	2
TOTAL	17	TOTAL	17

AFFIRMATIVE VOTES:

Anderson, R.  
Augspurger, G.L.  
Garinther, G.  
Lotz, R.  
Mayer, M.S.  
Nedzelnitsky, V.  
Royster, L.H.  
Schomer, P.D.  
Schonthal, E.  
Sepmeyer, L.W.  
Wang, S.  
Wong, G.S.K.

Larson-Davis Laboratories  
NCAC (Alt. for Walker)  
USHEL (Alt. for Kalb)  
CBEMA  
A T & T  
NIST  
American Industrial Hygiene Assoc.  
USCERL  
Bruel & Kjaer Instruments  
Audio Engineering Society  
Air Conditioning & Refrigeration Institute  
Acoustical Society of America

NEGATIVE VOTES:

None

ABSTENTIONS:

None

NOT RETURNED:

Arrington, J.  
Fung, T.Y.  
Linderoth, R.T.  
McKinley, R.  
Mozo, B.

U.S. ATA  
U.S. Army Communications Electronics Board  
Sonetronics, Inc.  
U S A F  
USAARL

LATE RESPONSE:

Avril Brenig  
Standards Manager

cc: Vice Chair, Standards Committee  
Chair and Vice Chair, ASACOS

S1 ACCREDITED STANDARDS COMMITTEE ON ACOUSTICS  
S1 Appointments

<u>Position</u>	<u>Individual</u>	<u>Term</u>
Chairman	G.S.K. Wong	1993-1996
Vice Chairman	R.W. Krug	1995-1998
ASA Member	G.S.K. Wong	1995-1996
Alt. ASA Member	R.W. Krug	1995-1996
 <u>Individual Experts:</u>		
	J.R. Bareham	1995-1996
	S.L. Ehrlich	1995-1996
	K.M. Eldred	1995-1996
	W.J. Galloway	1995-1996
	E.E. Gross, Jr.	1995-1996
	R.M. Guernsey	1995-1996
	R.K. Hillquist	1995-1996
	D.L. Johnson	1995-1996
	W.W. Lang	1995-1996
	G.C. Maling, Jr.	1995-1996
	A.H. Marsh	1995-1996
	L.W. Sepmeyer	1995-1996
	W.R. Thornton	1995-1996
	H.E. von Gierke	1995-1996
	G.S.K. Wong	1995-1996
	R.W. Young	1995-1996
 <u>U.S. TAG Chairs:</u>		
ISO/TC 43 Chair	P.D. Schomer	1995-1996
ISO/TC 43 Vice Chair	H.E. von Gierke	1995-1996
IEC/TC 29 Chair	V. Nedzelnitsky	1995-1996



# ACOUSTICAL SOCIETY OF AMERICA

OFFICE OF THE  
STANDARDS SECRETARIAT

120 WALL STREET, 32nd FLOOR, NEW YORK, NEW YORK 10005-3993

AVRIL BRENIG, Dr. P. H.  
STANDARDS MANAGER

Telephone (212) 248-0373  
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S1/416  
ATTACHMENT P-4

LB/S1/410  
20 December 1994

Return to: Letter Ballot Department  
Due date: 31 January 1995

**ADMINISTRATIVE LETTER BALLOT**  
**ACCREDITED STANDARDS COMMITTEE**  
**ON ACOUSTICS, S1**  
**AND U.S. TECHNICAL ADVISORY GROUP (TAG) FOR**  
**IEC/TC 29 ELECTROACOUSTICS AND ISO/TC 43 ACOUSTICS**

Topic: Approval of Officers and Individual Experts and U.S. TAG Chairs for 1995-1996

Approved for circulation by: G. S. Wong, Chair S1

Distributed by: A. Brenig, ASA Standards Manager

Reference Document(s): ATTACHMENT A - Lists officers, Individual Experts for S1, and U.S. TAG Chairs for parallel international groups

Background Information:

According to ANSI's procedures, under which the Accredited Standards Committees operate, the Officers of the Standards Committees are to be confirmed (at the beginning of their terms), as well as Individual Experts (the latter to be confirmed annually) by the respective Standards Committees.

The officers and Individual Experts are proposed by the ASA Committees, on Standards (ASACOS) as the Secretariat for the Standards Committees, in concert with the Chairs of the respective Standards Committees.

One change in S1 Officers is proposed for 1995/1996. The list of Officers and Individual Experts is attached for your consideration for confirmation. The ASA representatives to S1 for 1995/1996 are listed for your information.



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STANDARDS MANAGER

Telephone (212) 248-0373  
Telefax (212) 248-0146

6 April 1995

TO: G.S.K. Wong, Chair S1

RE: Administrative Letter Ballot LB/S1/411 sent to Accredited Standards Committee  
S1 on 7 February 1995 and closed on 6 April 1995

SUBJECT: Disbanding of S1 Two Working Groups (S1/WG8 and S1/WG18)

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Enclosed please find tally of the above administrative letter ballot, showing results  
as follows:

## Classification of Members

AFFIRMATIVE VOTES	12
NEGATIVE VOTES	0
ABSTENTIONS	0
NOT RETURNED	5
TOTAL	17

P - PRODUCER	5
C - CONSUMER	4
G - GOVERNMENT	6
GI - GENERAL INTEREST	2
TOTAL	17

**AFFIRMATIVE VOTES:**

Anderson, R.	Larson-Davis Laboratories
Arrington, J.	U.S. ATA
Augsburger, G.L. ( <i>Alt. for Walker</i> )	National Council of Acoustical Consultants
Fung, T.Y.	U.S. Army Communications Electronics Command
Garinther, G. ( <i>Alt. for Kalb</i> )	USHEL
Lotz, R.	CBEMA
Mayer, M.S.	AT&T
McKinley, R.	USAF
Schomer, P.D.	USCERL
Schonthal, E.	Bruel & Kjaer Instruments
Sepmeyer, L.W.	Audio Engineering Society
Wang, S.	Air-Conditioning & Refrigeration Institute

**NEGATIVE VOTES:**

None

**ABSTENTIONS:**

None

**NOT RETURNED:**

Linderoth, R.T.	Sonetronics, Inc.
Mozo, B.	USAARL
Nedzelnitsky, V.	NIST
Royster, L.H.	American Industrial Hygiene Assoc.
Wong, G.S.K.	Acoustical Society of America

**LATE RESPONSES:**

None

Avril Brenig  
Standards Manager

cc: Vice Chair, Standards Committee  
Chair and Vice Chair, ASACOS



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STANDARDS MANAGER

Telephone (212) 248-0373  
Telefax (212) 248-0146

LB/S1/411  
7 February 1995

Return to: Letter Ballot Department  
Due date: 22 March 1995

**ADMINISTRATIVE LETTER BALLOT**  
**ACCREDITED STANDARDS COMMITTEE**  
**ON ACOUSTICS, S1**  
**AND U.S. TECHNICAL ADVISORY GROUP (TAG) FOR**  
**IEC/TC 29 ELECTROACOUSTICS AND ISO/TC 43 ACOUSTICS**

Topic: Approval of disbanding of two S1 working groups

Approved for circulation by: G.S.K. Wong, Chair S1

Distributed by: Brenig, ASA Standards Manager

Reference Document(s): Minutes of Austin, Texas meeting (S1/409)

Background Information:

re: S1/WG8 Acoustical Terminology - W.J. Galloway, Chair

At the S1 meeting held in Austin, Texas on 1 December 1994 (S1/409), it was decided that with the publication of ANSI S1.1-1994 Acoustical Terminology, the working group should be disbanded. (Mr. Galloway will be available to monitor the current standard for revisions, etc.)

re: S1/WG18 Ultrasonic sound source for leak simulator - W.S. Morford, Chair

It was voted at the last meeting of S1 (Cambridge, Mass, June 1994) that if no further words were heard from the chair of this working group, it would be disbanded. With no word despite follow-up, the working group was recommended for disbanding (S1/409, S1 meeting in Austin, Texas).

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April 3, 1995

Ms. Avril Brenig  
Standards Manager  
Acoustical Society of America  
120 Wall Street  
32nd Floor  
New York, NY 10005-3993

Dear Ms. Brenig:

Please be advised that the Executive Standards Council Subcommittee on Accreditation (ExSC SC-A) has reviewed the revisions to the *Operating Procedures for Accredited Standards Committees*, dated October 16, 1994, for the following:

- Accredited Standards Committee S1 - Acoustics
- Accredited Standards Committee S2 - Mechanical Vibration and Shock
- Accredited Standards Committee S3 - Bioacoustics
- Accredited Standards Committee S3 S12 - Noise

The ExSC SC-A has determined that changes to the Accredited Standards Committees operating procedures were not substantive. Therefore, I am pleased to inform you that the accreditation of ASCs S1, S2, S3 and S12 is maintained using the revised operating procedures.

If you have any questions regarding the maintenance of accreditation process, please feel free to contact me.

Sincerely,

Robert C. Armstrong  
Program Administrator  
Procedures and Standards  
Administration

cc: Accreditation file  
J. Lindsay, ANSI staff